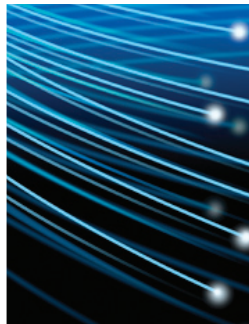
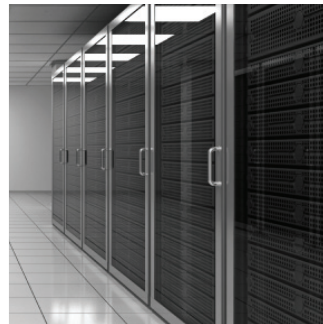


SFP, SFP +,  
CWDM WAVELENGTHS,  
10G SFP, XFP & GBICS



# SFP PRODUCTS





## MSA Compliant SFP Simplex LC

Description	Part Number
<b>100BASE-FX/OC-3</b>	
1310nm TX/1550nm RX Multimode (SC) 2km	TN-SFP-OC3MB1
1550nm TX/1310nm RX Multimode (SC) 2km	TN-SFP-OC3MB2
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-OC3SB21
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-OC3SB22
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC3SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC3SB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-OC3SB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-OC3SB62
1310nm TX/1550nm RX Single Mode 80km	TN-SFP-OC3SB81
1550nm TX/1310nm RX Single Mode 80km	TN-SFP-OC3SB82
1310nm TX/1550nm RX Single Mode 120km	TN-SFP-OC3SB121
1550nm TX/1310nm RX Single Mode 120km	TN-SFP-OC3SB122
1310nm TX/1550nm RX Single Mode 160km	TN-SFP-OC3SB161
1550nm TX/1310nm RX Single Mode 160km	TN-SFP-OC3SB162
1310nm TX/1550nm RX Single Mode 200km	TN-SFP-OC3SB201
1550nm TX/1310nm RX Single Mode 200km	TN-SFP-OC3SB202
<b>OC-12/STM-4</b>	
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC12SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC12SB42
<b>1000BASE-BX</b>	
1310nm TX/1490nm RX Single Mode 10km (without DMI)	TN-SFP-EBXU
1490nm TX/1310nm RX Single Mode 10km (without DMI)	TN-SFP-EBXD
1310nm TX/1490nm RX Single Mode 10km	TN-SFP-BXU
1490nm TX/1310nm RX Single Mode 10km	TN-SFP-BXD
1310nm TX/1490nm RX Single Mode 20km	TN-SFP-BXU2
1490nm TX/1310nm RX Single Mode 20km	TN-SFP-BXD2
<b>1000BASE-SX</b>	
1310nm TX/1550nm RX Multimode 500m	TN-SFP-SXB1
1550nm TX/1310nm RX Multimode 500m	TN-SFP-SXB2
<b>1000BASE-LX</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11
▶ 1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11T
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12
▶ 1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12T
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21
▶ 1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21T
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22
▶ 1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22T
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-LXB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-LXB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-LXB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-LXB62
1510nm TX/1590nm RX Single Mode 80km	TN-SFP-LXB81
1590nm TX/1510nm RX Single Mode 80km	TN-SFP-LXB82
1510nm TX/1590nm RX Single Mode 120km	TN-SFP-LXB121
1590nm TX/1510nm RX Single Mode 120km	TN-SFP-LXB122
1510nm TX/1590nm RX Single Mode 160km	TN-SFP-LXB161
1590nm TX/1510nm RX Single Mode 160km	TN-SFP-LXB162
<b>100/1000Base-LX dual speed</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXMB11
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXMB12



## MSA Compliant SFP Duplex LC

Description	Part Number
<b>100BASE-FX/OC-3</b>	
1300nm Multimode 2km	TN-SFP-OC3M
▶ 1300nm Multimode 2km	TN-SFP-OC3MT
1310nm Single Mode 20km	TN-SFP-OC3S
▶ 1300nm Multimode 20km	TN-SFP-OC3ST
1310nm Single Mode 30km	TN-SFP-OC3S3
1310nm Single Mode 50km	TN-SFP-OC3S5
1550nm Single Mode 80km	TN-SFP-OC3S8
1550nm Single Mode 100km	TN-SFP-OC3S10
1550nm Single Mode 120km	TN-SFP-OC3S12
1550nm Single Mode 200km	TN-SFP-OC3S20
<b>OC-12/STM-4</b>	
1300nm Multimode 1km	TN-SFP-OC12M
1310nm Single Mode 20km	TN-SFP-OC12S
1310nm Single Mode 40km	TN-SFP-OC12S4
1550nm Single Mode 80km	TN-SFP-OC12S8
<b>1000BASE-SX</b>	
850nm Multimode 62.5/125um: 220m 50/125um: 550m (without DMI)	TN-SFP-SX
850nm Multimode 62.5/125um: 220m 50/125um: 550m (with DMI)	TN-SFP-SXD
1300nm Ext. Multimode 50/125um: 2km	TN-SFP-ESX5
1300nm Ext. Multimode 62.5/125um: 2km	TN-SFP-ESX6
<b>1000BASE-LX</b>	
1310nm Single Mode 10km	TN-SFP-LX1
▶ 1310nm Single Mode 10km	TN-SFP-LX1T
1310nm Single Mode 10km (without DMI)	TN-SFP-ELX1
1310nm Single Mode 30km	TN-SFP-LX3
▶ 1310nm Single Mode 30km	TN-SFP-LX3T
1550nm Single Mode 50km	TN-SFP-LX5
1550nm Single Mode 80km	TN-SFP-LX8
1550nm Single Mode 120km	TN-SFP-LX12
1550nm Single Mode 160km	TN-SFP-LX16
<b>OC-48/STM-16/ Fibre Channel 1x/2x/1000BASE-X</b>	
850nm Multimode 62.5: 150m 50um: 300m	TN-SFP-FC2XM
1310nm Single Mode 2km	TN-SFP-FC2XS2
1310nm Single Mode 15km	TN-SFP-FC2XS15
1310nm Single Mode 40km	TN-SFP-FC2XS40
<b>Fibre Channel 1x/2x/4x/1000BASE-X</b>	
850nm Multimode FC4: 150m/FC2:300m/FC1: 500m	TN-SFP-FC4XM
<b>Copper SFP</b>	
100BASE-TX RJ-45, 100m	TN-SFP-TX
10/100/1000BASE-T SGMII RJ-45 100m	TN-SFP-T-MG

### Key

- ▶ Extended Temperature -40° to +85°C
- ▶ Each step 20nm 10km
- ▶ Each step 20nm 40km
- ▶ Each step 20nm 80km
- ▶ Each step 20nm 160km

## MSA Compliant SFP CWDM Wavelengths

Description	Part Number
<b>100BASE-FX/OC-3</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-OC3S8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-OC3S16-Cxx
<b>OC-12/STM-4</b>	
▶ 18 wavelengths from 1270nm to 1610nm 20km	TN-SFP-OC12S-Cxx
<b>1000BASE-LX/Fibre Channel 1x</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-LX8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-LX16-Cxx
<b>OC-48/STM-16/Fibre Channel 1x/2x/1000BASE-X</b>	
▶ 18 wavelengths from 1270nm to 1610nm 40km	TN-SFP-OC48S-Cxx

## MSA Compliant 10G XFP CWDM Wavelengths

Description	Part Number
<b>10GBASE-LR/10G Fibre Channel CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 10km	TN-XFP-LR1-Cxx
14 wavelengths from 1270nm to 1370nm and 1470 to 1610nm 40km	TN-XFP-LR4-Cxx
8 wavelengths from 1470nm to 1610nm 70km	TN-XFP-LR7-Cxx

## MSA Compliant 10G XFP

Description	Part Number
<b>10GBASE-SR/10G Fibre Channel</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-SR
<b>10GBASE-LR/ER/ZR/10G Fibre Channel</b>	
1310nm Single Mode 10km	TN-XFP-LR1
▶ 1310nm Single Mode 10km	TN-XFP-LR1-T
1310nm Single Mode 20km	TN-XFP-LR2
▶ 1310nm Single Mode 20km	TN-XFP-LR2-T
1310nm Single Mode 40km	TN-XFP-ER
1550nm Single Mode 80km	TN-XFP-ZR
1550nm Single Mode 100km	TN-XFP-LR10

## MSA Compliant 10G SFP+

Description	Part Number
<b>10GBASE-SR</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-10GSFP-SR
<b>10GBASE-LR/ER</b>	
1310nm Single Mode 10km	TN-10GSFP-LR1
1310nm Single Mode 20km	TN-10GSFP-LR2
1310nm Single Mode 40km	TN-10GSFP-LR4
1550nm Single Mode 70km	TN-10GSFP-LR7

## GBICs

Description	Part Number
<b>1000BASE-SX</b>	
850nm Multimode (SC) 62.5/125um:220m 50/125um: 550m	TN-GB-MM5
<b>1000BASE-LX</b>	
1310nm Single Mode (SC) 10km	TN-GB-SM5
1310nm Single Mode (SC) 30km	TN-GB-SM53

## HP Compatible SFP

Description	Part Number
<b>1000BASE-SX</b>	
850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-J4858C
<b>1000BASE-LX</b>	
1310nm Single Mode 20km	TN-J4859C
1550nm Single Mode 80km	TN-J4860C

## Cisco Compatible SFP

Description	Part Number
<b>100BASE-FX</b>	
1300nm Multimode 2km	TN-GLC-FE-100FX
▶ 1300nm Multimode 2km	TN-GLC-FE-100FX-RGD
1310nm Single Mode 20km	TN-GLC-FE-100LX
▶ 1310nm Single Mode 20km	TN-GLC-FE-100LX-RGD
1300nm Multimode 2km (works on Gigabit SFP port)	TN-GLC-GE-100FX
<b>100BASE-BX</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-GLC-FE-100BX-U
1550nm TX/1310nm RX Single Mode 10km	TN-GLC-FE-100BX-D
1310nm TX/1550nm RX Single Mode 20km	TN-GLC-FE-100BX-U-20
1550nm TX/1310nm RX Single Mode 20km	TN-GLC-FE-100BX-D-20
1310nm TX/1550nm RX Single Mode 40km	TN-GLC-FE-100BX-U-40
1550nm TX/1310nm RX Single Mode 40km	TN-GLC-FE-100BX-D-40
1310nm TX/1550nm RX Single Mode 80km	TN-GLC-FE-100BX-U-80
1550nm TX/1310nm RX Single Mode 80km	TN-GLC-FE-100BX-D-80
<b>1000BASE-T/SX/LX</b>	
1000BASE-T RJ45, 100m	TN-GLC-T
1000BASE-SX 850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM
▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-SFP-GE-S
▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM-RGD
1000BASE-SX 1300nm Ext. Multimode 2km	TN-GLC-SX-MM-2K
1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM
▶ 1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM-RGD
1000BASE-LX 1310nm Single Mode 40km	TN-GLC-LHX-SM
▶ 1000BASE-LX 1310nm Single Mode 10km	TN-SFP-GE-L
1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM
▶ 1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM-RGD
1000BASE-LX 1550nm Single Mode 120km	TN-GLC-ZX-SM-12
1000BASE-LX 1550nm Single Mode 150km	TN-GLC-ZX-SM-15
▶ 1000BASE-LX 1550nm Single Mode 80km	TN-SFP-GE-Z
<b>1000BASE-BX</b>	
1310nm TX/1490nm RX Single Mode 10km	TN-GLC-BX-U
1490nm TX/1310nm RX Single Mode 10km	TN-GLC-BX-D
1310nm TX/1490nm RX Single Mode 40km	TN-GLC-BX-U-40
1490nm TX/1310nm RX Single Mode 40km	TN-GLC-BX-D-40
1310nm TX/1490nm RX Single Mode 60km	TN-GLC-BX-U-60
1490nm TX/1310nm RX Single Mode 60km	TN-GLC-BX-D-60
1550nm TX/1490nm RX Single Mode 80km	TN-GLC-BX-U-80
1490nm TX/1550nm RX Single Mode 80km	TN-GLC-BX-D-80
1550nm TX/1490nm RX Single Mode 120km	TN-GLC-BX-U-120
1490nm TX/15150nm RX Single Mode 120km	TN-GLC-BX-D-120

## Cisco Compatible SFP CWDM Wavelengths

### 100BASE-X CWDM

- ▶ 18 wavelengths from 1270nm to 1610nm TN-CWDM-100LX-1xx0

### 1000BASE-X CWDM

- ▶ 18 wavelengths from 1270nm to 1610nm TN-CWDM-SFP-1xx0

## Cisco Compatible X2

### X2

850nm Multimode	TN-X2-10GB-SR
62.5/125um: 33m 50/125um: 300m	
1310nm Multimode 220m	TN-X2-10GB-LRM
1310nm Single Mode 10km	TN-X2-10GB-LR
1550nm Single Mode 40km	TN-X2-10GB-ER
1550nm Single Mode 80km	TN-X2-10GB-ZR

## Cisco Compatible 10G CWDM

### 10G CWDM X2

- ▶ 8 wavelengths from 1470nm to 1610nm 40km TN-CWDM-X2-1xx0-40
- ▶ 8 wavelengths from 1470nm to 1610nm 80km TN-CWDM-X2-1xx0-80

### 10G CWDM XFP

- ▶ 8 wavelengths from 1270nm to 1610nm 80km TN-CWDM-XFP-1xx0-80

### 10G CWDM SFP+

- ▶ 8 wavelengths from 1470nm to 1610nm 40km TN-CWDM-10G-1xx0-40
- ▶ 8 wavelengths from 1470nm to 1610nm 80km TN-CWDM-10G-1xx0-80

## Cisco Compatible XFP

### XFP

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-10G-MM-SR
1310nm Single Mode 10km	TN-XFP-10GLR-OC192SR
1310nm Single Mode 20km	TN-XFP-10GLR2-OC192S
1550nm Single Mode 40km	TN-XFP-10GER-OC192IR
1550nm Single Mode 80km	TN-XFP-10GZR-OC192LR
1270nm TX/1330nm RX single mode 10km	TN-XFP-10G-U
1330nm TX/1270nm RX single mode 10km	TN-XFP-10G-D

## Cisco Compatible SFP+

### SFP+

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-SFP-10G-SR
1310nm Multimode 220m	TN-SFP-10G-LRM
1310nm Single Mode 10km	TN-SFP-10G-LR
1550nm Single Mode 40km	TN-SFP-10G-ER
1550nm Single Mode 80km	TN-SFP-10G-ZR

## Key

- ▶ *Extended Temperature -40° to +85°C*
- ▶ *Each step 20nm 10km*
- ▶ *Each step 20nm 40km*
- ▶ *Each step 20nm 80km*
- ▶ *Each step 20nm 160km*

## 100Base-FX / OC-3

Description	Part Number
<b>Duplex LC</b>	
1300nm Multimode 2km	TN-SFP-OC3M
▶▶ 1300nm Multimode 2km	TN-SFP-OC3MT
1310nm Single Mode 20km	TN-SFP-OC3S
▶▶ 1310nm Multimode 20km	TN-SFP-OC3ST
1310nm Single Mode 30km	TN-SFP-OC3S3
1310nm Single Mode 50km	TN-SFP-OC3S5
1550nm Single Mode 80km	TN-SFP-OC3S8
1550nm Single Mode 100km	TN-SFP-OC3S10
1550nm Single Mode 120km	TN-SFP-OC3S12
1550nm Single Mode 200km	TN-SFP-OC3S20
<b>Duplex LC Cisco Compatible</b>	
1300nm Multimode 2km	TN-GLC-FE-100FX
▶▶ 1300nm Multimode 2km	TN-GLC-FE-100FX-RGD
1310nm Single Mode 20km	TN-GLC-FE-100LX
▶▶ 1310nm Multimode 20km	TN-GLC-FE-100LX-RGD
1300nm Multimode 2km (works on Gigabit SFP port)	TN-GLC-GE-100FX
<b>Simplex LC</b>	
1310nm TX/1550nm RX Multimode (SC) 2km	TN-SFP-OC3MB1
1550nm TX/1310nm RX Multimode (SC) 2km	TN-SFP-OC3MB2
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-OC3SB21
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-OC3SB22
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC3SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC3SB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-OC3SB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-OC3SB62
1310nm TX/1550nm RX Single Mode 80km	TN-SFP-OC3SB81
1550nm TX/1310nm RX Single Mode 80km	TN-SFP-OC3SB82
1310nm TX/1550nm RX Single Mode 120km	TN-SFP-OC3SB121
1550nm TX/1310nm RX Single Mode 120km	TN-SFP-OC3SB122
1310nm TX/1550nm RX Single Mode 160km	TN-SFP-OC3SB161
1550nm TX/1310nm RX Single Mode 160km	TN-SFP-OC3SB162
1310nm TX/1550nm RX Single Mode 200km	TN-SFP-OC3SB201
1550nm TX/1310nm RX Single Mode 200km	TN-SFP-OC3SB202
<b>Simplex LC Cisco Compatible</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-GLC-FE-100BX-U
1550nm TX/1310nm RX Single Mode 10km	TN-GLC-FE-100BX-D
1310nm TX/1550nm RX Single Mode 20km	TN-GLC-FE-100BX-U-20
1550nm TX/1310nm RX Single Mode 20km	TN-GLC-FE-100BX-D-20
1310nm TX/1550nm RX Single Mode 40km	TN-GLC-FE-100BX-U-40
1550nm TX/1310nm RX Single Mode 40km	TN-GLC-FE-100BX-D-40
1310nm TX/1550nm RX Single Mode 80km	TN-GLC-FE-100BX-U-80
1550nm TX/1310nm RX Single Mode 80km	TN-GLC-FE-100BX-D-80
<b>Copper SFP</b>	
100Base-TX RJ-45 100m	TN-SFP-TX
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-OC3S8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-OC3S16-Cxx
<b>CWDM Cisco Compatible</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-CWDM-100LX-1xx0



## OC-12/STM-4

### Duplex LC

1300nm Multimode 1km	TN-SFP-OC12M
1310nm Single Mode 20km	TN-SFP-OC12S
1310nm Single Mode 40km	TN-SFP-OC12S4
1550nm Single Mode 80km	TN-SFP-OC12S8

### Simplex LC

1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC12SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC12SB42

### CWDM

▶ 18 wavelengths from 1270nm to 1610nm 20km	TN-SFP-OC12S-Cxx
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## Gigabit Ethernet

### 1000BASE-SX Duplex LC

850nm Multimode 62.5/125um: 220m 50/125um: 550m (without DMI)	TN-SFP-SX
850nm Multimode 62.5/125um: 220m 50/125um: 550m (with DMI)	TN-SFP-SXD
1300nm Ext. Multimode 50/125um: 2km	TN-SFP-ESX5
1300nm Ext. Multimode 62.5/125um: 2km	TN-SFP-ESX6

### 1000BASE-SX Cisco Compatible

1000BASE-SX 850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM
▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-SFP-GE-S
▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM-RGD
1000Base-SX 1300nm Ext. Multimode 2km	TN-GLC-SX-MM-2K

### 1000Base-SX HP Compatible

850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-J4858C
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### 1000BASE-LX Duplex LC

1310nm Single Mode 10km	TN-SFP-LX1
▶ 1310nm Single Mode 10km	TN-SFP-LX1T
1310nm Single Mode 10km (without DMI)	TN-SFP-ELX1
1310nm Single Mode 30km	TN-SFP-LX3
▶ 1310nm Single Mode 30km	TN-SFP-LX3T
1550nm Single Mode 50km	TN-SFP-LX5
1550nm Single Mode 80km	TN-SFP-LX8
1550nm Single Mode 120km	TN-SFP-LX12
1550nm Single Mode 160km	TN-SFP-LX16

### 1000BASE-LX HP Compatible

1310nm Single Mode 20km	TN-J4859C
1550nm Single Mode 80km	TN-J4860C

### 1000BASE-LX Cisco Compatible

1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM
▶ 1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM-RGD
1000BASE-LX 1310nm Single Mode 40km	TN-GLC-LHX-SM
▶ 1000BASE-LX 1310nm Single Mode 10km	TN-SFP-GE-L
1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM
▶ 1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM-RGD
1000BASE-LX 1550nm Single Mode 120km	TN-GLC-ZX-SM-12
1000BASE-LX 1550nm Single Mode 150km	TN-GLC-ZX-SM-15
▶ 1000BASE-LX 1550nm Single Mode 80km	TN-SFP-GE-Z

## Gigabit Ethernet

### 1000BASE-BX Simplex LC

1310nm TX/1490nm RX Single Mode 10km (without DMI)	TN-SFP-EBXU
1490nm TX/1310nm RX Single Mode 10km (without DMI)	TN-SFP-EBXD
1310nm TX/1490nm RX Single Mode 10km	TN-SFP-BXU
1490nm TX/1310nm RX Single Mode 10km	TN-SFP-BXD
1310nm TX/1490nm RX Single Mode 20km	TN-SFP-BXU2
1490nm TX/1310nm RX Single Mode 20km	TN-SFP-BXD2

### 1000BASE-SX Simplex LC

1310nm TX/1550nm RX Multimode 500m	TN-SFP-SXB1
1550nm TX/1310nm RX Multimode 500m	TN-SFP-SXB2

### 1000BASE-LX Simplex LC

1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11
▶ 1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11T
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12
▶ 1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12T
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21
▶ 1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21T
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22
▶ 1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22T
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-LXB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-LXB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-LXB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-LXB62
1510nm TX/1590nm RX Single Mode 80km	TN-SFP-LXB81
1590nm TX/1510nm RX Single Mode 80km	TN-SFP-LXB82
1510nm TX/1590nm RX Single Mode 120km	TN-SFP-LXB121
1590nm TX/1510nm RX Single Mode 120km	TN-SFP-LXB122
1510nm TX/1590nm RX Single Mode 160km	TN-SFP-LXB161
1590nm TX/1510nm RX Single Mode 160km	TN-SFP-LXB162

### 1000BASE-BX Simplex LC Cisco Compatible

1310nm TX/1490nm RX Single Mode 10km	TN-GLC-BX-U
1490nm TX/1310nm RX Single Mode 10km	TN-GLC-BX-D
1310nm TX/1490nm RX Single Mode 40km	TN-GLC-BX-U-40
1490nm TX/1310nm RX Single Mode 40km	TN-GLC-BX-D-40
1310nm TX/1490nm RX Single Mode 60km	TN-GLC-BX-U-60
1490nm TX/1310nm RX Single Mode 60km	TN-GLC-BX-D-60
1550nm TX/1490nm RX Single Mode 80km	TN-GLC-BX-U-80
1490nm TX/1550nm RX Single Mode 80km	TN-GLC-BX-D-80
1550nm TX/1490nm RX Single Mode 120km	TN-GLC-BX-U-120
1490nm TX/15150nm RX Single Mode 120km	TN-GLC-BX-D-120

### Copper SFP

10/100/1000BASE-T SGMII RJ-45 100m	TN-SFP-T-MG
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### Copper SFP Cisco Compatible

1000Base-T RJ45 100m	TN-GLC-T
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### 1000BASE-SX GBIC

850nm Multimode (SC) 62.5/125um:220m 50/125um: 550m	TN-GB-MM5
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### 1000BASE-LX GBIC

1310nm Single Mode (SC) 10km	TN-GB-SM5
1310nm Single Mode (SC) 30km	TN-GB-SM53

### CWDM

▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-LX8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-LX16-Cxx

### CWDM Cisco Compatible

▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-CWDM-100LX-1xx0
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## 100/1000Base-LX dual speed

### 100/1000Base-LX dual speed

1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXMB11
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXMB12

## OC-48/STM-16/ Fibre Channel

### Duplex LC

1x/2x/1000BASE-X 850nm Multimode 62.5: 150m 50um: 300m	TN-SFP-FC2XM
1310nm Single Mode 2km	TN-SFP-FC2XS2
1310nm Single Mode 15km	TN-SFP-FC2XS15
1310nm Single Mode 40km	TN-SFP-FC2XS40

### CWDM

▶ 18 wavelengths from 1270nm to 1610nm 40km	TN-SFP-OC48S-Cxx
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## Fibre Channel 1x/2x/4x/1000BASE-X

### Fibre Channel 1x/2x/4x/1000BASE-X

850nm Multimode FC4: 150m/FC2:300m/FC1: 500m	TN-SFP-FC4XM
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## 10G Ethernet XFP

### 10GBASE-SR/10G Fibre Channel

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-SR
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### 10GBASE-SR/10G Fibre Channel Cisco Compatible

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-10G-MM-SR
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### 10GBASE-LR/ER/ZR/10G Fibre Channel

1310nm Single Mode 10km	TN-XFP-LR1
▶▶ 1310nm Single Mode 10km	TN-XFP-LR1-T
1310nm Single Mode 20km	TN-XFP-LR2
▶▶ 1310nm Single Mode 20km	TN-XFP-LR2-T
1310nm Single Mode 40km	TN-XFP-ER
1550nm Single Mode 80km	TN-XFP-ZR
1550nm Single Mode 100km	TN-XFP-LR10
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-10G-MM-SR

### 10GBASE-LR/ER/ZR/10G Fibre Channel/ OC-192 Cisco Compatible

1310nm Single Mode 10km	TN-XFP-10GLR-OC192SR
1310nm Single Mode 20km	TN-XFP-10GLR2-OC192S
1550nm Single Mode 40km	TN-XFP-10GER-OC192IR
1550nm Single Mode 80km	TN-XFP-10GZR-OC192LR

### 10GBase-LR Simplex LC Cisco Compatible

1270nm TX/1330nm RX single mode 10km	TN-XFP-10G-U
1330nm TX/1270nm RX single mode 10km	TN-XFP-10G-D

### 10GBASE-LR/10G Fibre Channel CWDM

▶ 18 wavelengths from 1270nm to 1610nm 10km	TN-XFP-LR1-Cxx
14 wavelengths from 1270nm to 1370nm and 1470 to 1610nm 40km	TN-XFP-LR4-Cxx
8 wavelengths from 1470nm to 1610nm 70km	TN-XFP-LR7-Cxx

### 10GBase-LR/10G Fibre Channel CWDM Cisco Compatible

▶ 8 wavelengths from 1270nm to 1610nm 80km	TN-CWDM-XFP-1xx0-80
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## 10G Ethernet SFP+

### 10GBASE-SR

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-10GSFP-SR
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### 10GBASE-SR Cisco Compatible

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-SFP-10G-SR
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### 10GBase-LR/ER/ZR

1310nm Single Mode 20km	TN-10GSFP-LR2
1310nm Single Mode 40km	TN-10GSFP-LR4
1550nm Single Mode 70km	TN-10GSFP-LR7

### 10GBase-LR/ER/ZR Cisco Compatible

1310nm Multimode 220m	TN-SFP-10G-LRM
1310nm Single Mode 10km	TN-SFP-10G-LR
1550nm Single Mode 40km	TN-SFP-10G-ER
1550nm Single Mode 80km	TN-SFP-10G-ZR

### 10G CWDM Cisco Compatible

▶ 8 wavelengths from 1470nm to 1610nm	TN-CWDM-10G-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm	TN-CWDM-10G-1xx0-80

## 10G Ethernet X2

### 10GBase-SR/LR/ER/ZR Cisco Compatible

850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-X2-10GB-SR
1310nm Multimode 220m	TN-X2-10GB-LRM
1310nm Single Mode 10km	TN-X2-10GB-LR
1550nm Single Mode 40km	TN-X2-10GB-ER
1550nm Single Mode 80km	TN-X2-10GB-ZR

### CWDM Cisco Compatible

▶ 8 wavelengths from 1470nm to 1610nm 40km	TN-CWDM-X2-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm 80km	TN-CWDM-X2-1xx0-80

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